

## Planning Your Own Scientific Investigation

Use this form when you want to design and conduct your own investigation of a question that you and your group want to explore.

*Investigative question* (the question you want to investigate). Include both the changed (manipulated) variable and the measured/observed (responding) variable.

*Prediction, including your reasoning.* (You might write, *I predict \_\_\_\_\_ because \_\_\_\_\_.*) Include the variable you will change and what you will measure/observe.

### Procedure

List the one changed (manipulated) variable:

List the most important logical steps; include all the different variables and their amounts:

List the variables you will keep the same or constant (controlled variables):

List the most important materials:

List the variable you will measure and/or observe (measured/observed or responding variable):

How often and/or how many times will you measure and/or observe it?

Make a table for recording the data.

Repeat the tests/procedure at least 3 times.

After you have completed the investigation and talked with your group about the results, *write a conclusion*. Answer the *question that you have been investigating*, providing the data (results of your investigation) as *evidence of your thinking*. Also write about whether or not the results of the investigation support your *prediction*. If necessary, you might also explain what you think caused *inconclusive or inconsistent data* in your results (consider the *variables* in your tests).